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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/581,240	05/01/2007	Donald L. Horton	020512.0012US	1330	
34284 Rutan & Tucl	7590 02/11/200 rer LLP	8	EXAMINER		
611 ANTON		FRIEDHOFER, MICHAEL A			
SUITE 1400 COSTA MES	A CA 92626	ART UNIT	PAPER NUMBER		
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			02/11/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.	Applicant(s)	Applicant(s)	
10/581,240	HORTON, DONALD L.		
Examiner	Art Unit		
Michael A. Friedhofer	2832		

04(b).

		Michael A. Friedhofer	2832	
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the c	correspondence ac	ldress
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY  THE WASHINGTON FOR REPLY  THE MAILING DAY  SON OF THE MAILING DAY  THE MAILING	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tin  till apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	
Status				
2a)□	Responsive to communication(s) filed on	action is non-final. ace except for formal matters, pro		e merits is
Disposit	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-19 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  Claim(s) is/are allowed.  Claim(s) is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or			
Applicat	ion Papers			
10)	The specification is objected to by the Examiner The drawing(s) filed onis/are: a) accept Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examiner.	epted or b)  objected to by the I drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 C	
Priority (	ınder 35 U.S.C. § 119			
a)l	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the prior  application from the International Bureau  See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National	Stage
Attachmen		- 0 <u>0</u> _ <		
1) X Notic	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	

- Notice of Draftsperson's Patent Drawing Review (PTO-948)
   Information Disclosure Statement(s) (PTO/S5008)
  - Paper No(s)/Mail Date 9/11/06.

- Paper No(s)/Mail Date.
- 5) Notice of Informal Patent Application 6) Other:

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## DETAILED ACTION

## Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-6, 8, and 12-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Marker ('383).

Marker discloses in the figures a rotary circuit selection device comprising a driving cam 26 and an opposing stationary cam 27 each having a series of alternating peaks and valleys; a biasing mechanism formed by contact 31 to bias the driving cam toward the stationary cam such that the peaks of each cam are received by the valleys of the opposing cam; and a shaft 4 that rotates and translates the driving cam in relation to the stationary cam in order to select the circuit. The peaks and valleys of the cams extend toward each other along a translational direction of motion of the driving cam. The circuit comprises electrical components. Each peak has an angle formed by converging sides of the peak and each valley has an angle formed by converging sides of the valley, and wherein the angles of the peaks and the angles of the valleys are substantially equal. The biasing mechanism is a compression spring. The outer springs form an outer diameter greater than an outer diameter of the driving cam. Each cam may have at least either 8 peaks and 8 valleys or 10 peaks and 10

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valleys. The shaft extends through inner apertures of each cam. The amount of torque required to rotate the shaft is at least partly based on an amount of force of the biasing mechanism. Selecting a first circuit includes the step of biasing the driving cam toward the stationary cam. Torquing the driving cam causes the driving cam to translate between a received configuration and a distal configuration. As for the circuit using optical circuits or magnetic circuits, these are a matter of engineering design choice based on the materials available to the manufacturer and the environment in which the switch is being utilized.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-4 and 6-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Koide et al.

Koide et al discloses in the figures a rotary circuit selection device comprising a driving cam 10 and an opposing stationary cam 8 each having a series of alternating peaks and valleys; a biasing mechanism 12 configured to bias the driving cam toward the stationary cam such that the peaks of each cam are received by the valleys of the opposing cam; and a shaft formed by knob 11 that rotates and translates the driving cam in relation to the stationary cam in order to select the circuit. The circuit comprises electrical components. The biasing mechanism is a compression spring. The spring has an outer diameter less than

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an outer diameter of the driving cam. The shaft extends through inner apertures of each cam. The amount of torque required to rotate the shaft is at least partly based on an amount of force of the biasing mechanism. The step of selecting a first circuit also comprises the step of biasing the driving cam toward the stationary cam. The step of torquing the driving cam causes the driving cam to translate between a received configuration and a distal configuration. As for the spring having a diameter greater that the diameter of the driving cam with a washer to retain the spring, is a matter of engineering design choice based on the materials of available to the manufacturer. As for the number of peaks and valleys, this is a matter of engineering design choice based on the number of positioned desired, thereby the number of functions to be operated. As for utilizing optical or magnetic circuits rather than electrical circuits, this is a matter of engineering design choice based on the components available to the manufacturer, as well as, the environment in which the switch is being utilized.

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Cope, Delp, Marker ('482), and Liu teach various rotary switch structures using crown detent mechanisms.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael A. Friedhofer whose telephone number is 571-272-1992. The examiner can normally be reached on Mon-Fri 6:00 - 2:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael A. Friedhofer Primary Examiner Art Unit 2832

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/Michael A. Friedhofer/ Primary Examiner, Art Unit 2832